

Abstract of the Disclosure

An improved bit assembly for road milling, mining, and trenching equipment includes a streamlined tip assembly that is a combination of conical and cylindrical in shape and devoid of protrusions or annular indentations that might impede the flow of removed material over and around the bit assembly or provide space for removed material to become clogged or imbedded on the tip assembly. The portion of the bit block which mounts on a drum or endless chain extends from a cylindrical portion of the bit block and provides opposed angled shoulders which extend downwardly and away from a central ridge on the bit block to again provide for efficient flow of removed material over and around the bit block. As a part of the improved bit assembly, several embodiments of improved bit holders are disclosed including one embodiment having a notch along the back side of the bit holder tip portion for allowing the insertion of a tool therein to aid in removal of the bit holder from the bit block, and a second embodiment wherein the shank of the bit holder includes a pair of opposed elongate slots therethrough that provide a resilient middle section of the bit holder shank to aid in providing an increased interference fit for that shank in the bit holder. Also, an improved tool is disclosed that is insertable in a bit holder to allow the bit holder to be removed from the bit block by applying force to the front of the bit holder as mounted in the block.